

THE CLAIMS

Having thus described my invention what I claim as new, useful, and non-obvious and, accordingly, secure by Letters Patent of the United States is:

10        1. In a system for pre- and post- ignition lubrication of an internal combustion engine having an oil reservoir and at least one oil passageway, from an oil gallery of the engine, communicating externally thereof, an oil circulation circuit auxiliary to that of said engine, said circuit comprising:

15                (a) a first conduit having an inlet and an outlet, said inlet in fluid communication with an outlet of said oil passageway of said engine.

                      (b) an auxiliary oil pump, including power means therefore, having an inlet and an outlet, said inlet in fluid communication with said outlet of said first conduit;

20                (c) a second conduit having an inlet and an outlet, said inlet in fluid communication with said outlet of said pump, said outlet thereof in fluid communication with said engine oil passageway;

                      (d) means, including timing means, for selectively actuating said power means of said pump for a selectable periods of time prior to ignition, after ignition, or both;

25                (e) means for selectively closing said outlet of said second conduit at or upstream of, said inlet to said engine oil passageway, wherein said closing means are normally-open;

5 (f) a third conduit having an inlet and an outlet, said inlet in fluid communication with said outlet of said second conduit, said inlet disposed upstream of said normally-open outlet of said second conduit; and

10 (g) a fourth conduit having an inlet and an outlet, said inlet in fluid communication with said outlet of said third conduit, said outlet thereof in fluid communication with said first conduit and upstream of said auxiliary oil pump.

2. The oil circuit of Claim 1, further comprising:

(h) a pressure relief valve disposed within said fourth conduit between said inlet and outlet thereof.

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3. The oil circuit as recited in Claim 2, further comprising:

(i) an oil drain in fluid communication with said outlet of said third fluid conduit; and

20 (j) means for selectively opening said oil drain when said outlet of said second conduit is closed.

4. The oil circuit as recited in Claim 2, further comprising:

means for manual re-setting of a circuit breaker after an overload condition has interrupted to electrical power to said power to said oil pump.

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5. The oil circuit as recited in Claim 3, further comprising:

means for manual actuation of said oil change circuit.